

SW 12
NCC landfill
Tybouts C.

January 23, 1969

Mr. Uldis Karins
Assistant County Engineer, Dept. of Public Works
New Castle County Engineering Building
Kirkwood Highway, P. O. Box 165
Wilmington, Delaware

Dear Mr. Karins:

With reference to the proposed contract between New Castle County and the University of Delaware concerning "Evaluation of water quality changes at the Tybouts Corner Sanitary Landfill Operation" we have the following comments:

1. Changes in the groundwater table established by your initial set of soil borings should be monitored on a regular basis in refuse filled areas.
2. CO₂ and groundwater coliform bacteria should be added to the list of water quality tests to be performed.
3. A water sample from Red Lion Creek, at Route 13, should be taken and subjected to bacteriological and complete chemical analyses. This testing should be repeated approximately semi-annually. The "most probable number" technique must be used for the bacteriological analysis.
4. Concerning the section on the application for a federal grant for an expanded testing program which would be valuable in establishing criteria for future landfill site selection - securing such a grant will be difficult and will take some time. Our Regional Solid Waste Office has reported to us that such funds are scarce. These funds are granted for new and innovative methods, ideas, etc. only. Perhaps, on a State-wide basis, the University may be able to secure such funds.
5. We concur with the Water & Air Resources Commission staff's comments (letter of January 21, 1969). We should like to stress the point that provisions must be made for continuing a sampling program at the

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landfill after June 30, 1970, and after the landfill is completed. Perhaps, frequencies and the extent of sampling can be reduced in the future; but, judging from what is known at the present time, the program cannot be terminated at a specific date.

Very truly yours,

Robert E. Westerman, Sanitary Engineer
Director, Div. of Solid Wastes
Bureau of Environmental Health

Approved:

Donald E. Harneson, Chief
Bureau of Environmental Health

REN/DKH/fd

cc: New Castle County Health Unit - 1. Dr. Gliwa, 2. Mr. Gainer
Dr. Robert Varrin, Univ. of Delaware
Water & Air Resources Commission - 1. Mr. Wilburn, 2. Mr. Karsnik